

MEMORANDUM FOR: JTH

Declass Review  
by NIMA/DOD

John:

Here is a list of the people  
who will be here next Tuesday.  
My contact is [redacted] INR

I have also attached some earlier  
notes on the SALT related briefing  
that [redacted] was working on  
but which was never completed.

I have sent a note to Arl  
telling him you are working on a  
package for him.

P.S. You did talk to [redacted]  
[redacted] about this briefing  
didn't you?

Yes,  
[signature]

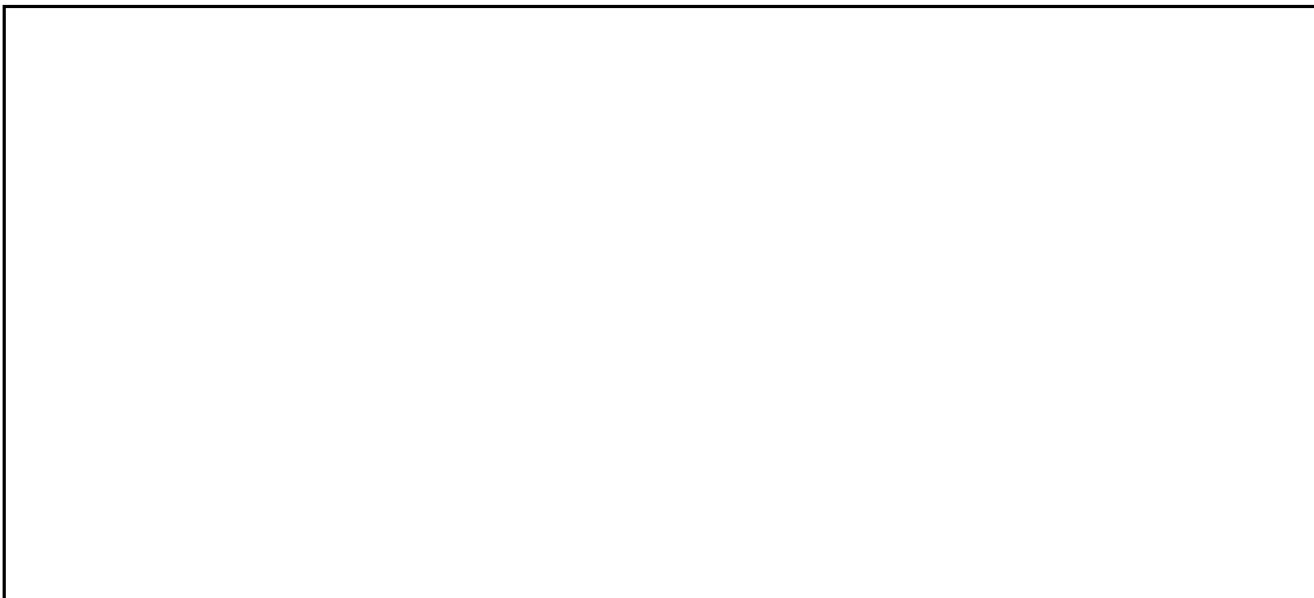


Briefing for State Department Officials

Tuesday, 13 October 1970

2:00 - 4:00 p.m.

25



Requested briefing to include:

Middle East Display in Main Auditorium, plus  
SS-9 and/or SS-11 Model  
SALT-related items  
Strategic, Offensive and Defensive Systems  
Possibly Sino-Soviet Border  
Cuba (if lid off)

MEMORANDUM FOR: ~~SSA~~

For Review ~~A~~

IEG is briefing you  
at 8<sup>30</sup> this morning .

M

8/5

(DATE)

## ICBM -

- "II-B", "III-A" "SRF"
- Too oriented toward ICBM systems
- Needs more on timing of construction, coverage
  - Acres cleared
  - ~~Site~~ Survey points
- More on the PI process
- Simulated hidden ICBM site complex

- series showing various 1st discovery of site construction.
- More precise descript. of camouflage & dummy activities.

MEMORANDUM FOR: *AEM*

*Try to work this in  
before I go on leave--  
but, if it loses out to  
other problems give  
my apologies & schedule  
early in Sept.*

*H* *30 July*  
(DATE)

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MEMORANDUM FOR: JJH ~~Handwritten initials~~ For Comment

John:

Back in April you asked  to develop a SALT-oriented briefing. Attached is an outline of that briefing. IEG is prepared to give this to you at your convenience. It should last about an hour. Would you like me to schedule it sometime next week?

~~Handwritten initials~~

A1  
29 July 1970

(DATE)

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MEMORANDUM FOR: Special Assistant

Al,

Regarding our outline of the SALT briefing you had asked if it had been prepared and ready to be given on a moments notice. We are submitting materials to the lab for vu-graphs and boards and we will be ready to brief on 24 July.



29 June 1970

(DATE)

X1  
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27 July 1970

MEMORANDUM FOR: Executive Officer, IEG/NPIC  
THROUGH : Chief, Missiles and Space Division, IEG/NPIC  
SUBJECT : SALT Briefings

1. Attached is the SALT briefing presentation package from the Missiles and Space Division. It contains a total of 57 vugraphs and a comprehensive outline. Eight of the vugraphs are color reproductions and are not yet in the package. They have

## I Introduction

### A. Presentation will cover four topics

1. ICBM systems and deployment
2. Camouflage and deception techniques used at ICBM sites
3. Types of equipment and activity observed at ICBM sites
4. Mobile systems

## II ICBM Systems and Deployment

### A. Introduction

1. ICBMs are deployed in both above-ground "soft" launch sites and in underground "hard" launch sites (silos).
  - a. Terms "hard" and "soft" refer to site's vulnerability to attack
2. Soft sites no longer being constructed, but remain active
- 3.. Five missile systems deployed in silos

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c. Type IIIB launch site

- (1) Used with SS-8 missile system
- (2) Also incorporates three silos into one site
- (3) Very limited deployment (3 sites completed)

2. SS-9 missile system

a. Example of type IIIC launch site

(1) Description

- (a) Silo door (60 by 30 feet)
- (b) Personnel access structure
- (c) Silo apron
- (d) Security fences (number will vary)
- (e) Dual possible instrumentation positions

b. Parade photo of SS-9 missile (SCARP)

1. Base plate for headworks
2. Silo liner cradle

(b) Mid-mid stage of construction

1. Silo headworks being erected and compartmented
2. Silo components at site (silo liner segments; exhaust deflector modules; part of silo door)

(c) Late-mid stage of construction

1. Silo door in place
2. Exhaust deflector modules in place
3. Tanks installed next to headworks

(4) Late stage of construction

- (a) Site access road constructed from prefabricated blocks
- (b) All major components of site installed

(2) Rail-to-road transfer point

- (a) Ground support equipment maintenance and storage
- (b) Missile receiving, inspection and maintenance (missile brought in by rail)
- (c) Propellant storage
- (d) Nuclear warhead handling and storage
- (e) Training site (full size type IIIC launch site)

(3) Headquarters command and control facility

- (a) Bunkered command post
- (b) Communications antennas

3. SS-11 missile system

a. Type IIID launch site

- (1) Constructed of prefabricated components
- (2) Less complicated than type IIIC silo

c. Support components of complex

(1) Railhead and storage area

(a) Receiving area for incoming construction materials

(2) Rail-to-road transfer point

(a) Ground support equipment maintenance and storage

(b) Missile receiving inspection and maintenance  
(missile brought in by rail)

(c) Propellant storage

4. SS-13 missile system

a. Type III launch site

(1) Constructed of poured concrete rather than prefabricated components

(2) Construction time approximately 27 to 28 months (but less

- b. SS-9 sites deployed at six complexes (no other system at complex)

Aleysk	Kartaly
Dombarovskiy	Uzhur
Imeni Gastello	Zhangiz Tobe

- c. SS-11 deployed at 10 complexes in conjunction with SS-7 and SS-8 soft and hard sites (except for Tatishchevo, which contains no other system)

Drovyannaya	Perm	other locations
Gladkaya	Svobodnyy	Derazhnya MREM Complex
Kostroma	Tatishchevo	Pervomaysk IREM Complex
Kozelsk	Teykovo	
Olovyannaya	Yedrovo	

2. Latest totals of all ICBM launch sites identified to date



IV Types of Equipment and Activity Observed at ICBM Site

A. Introduction

1. Observation of identifiable ground support equipment relatively rare at single silos
2. Once missile has been installed and fueled, there is no necessity to have equipment on site.

B. Silo loading and silo exercises

1. SS-7 missile system (type IIIA site)
  - a. Missiles removed from silos between coverages on two consecutive days at Plesetsk
  - b. Missile on erector loader at Tyuratam
    - (1) Two stages of missile brought to site on separate stage transporters

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- (1) Oxidizer trailers (identified by small box between end of tank and prime mover and by volume)
  - (2) Transfer vans
  - (3) Technical support vehicles
2. SS-11 missile system (type IIID sites)
- a. Propellant loading operation (Tyuratam) (observed on two consecutive days)
    - (1) Fuel loaded on first day from south side of silo (1 trailer)
    - (2) Oxidizer loaded on second day from north side of silo (2 trailers)
  - b. Oxidizer training exercise (Yedrovo) (no canister in silo)
    - (1) Two oxidizer trailers
    - (2) Transfer van
    - (3) Technical support vehicles

3. SCALEBOARD field launch site (Drovyanay)
  - a. Launch positions
  - b. Track activity indicates possible use in training role
4. SCALEBOARD field launch site (Drovyanaya)
  - a. Positioning points for TEL visible
  - b. Very little track activity
5. SCALEBOARD permanent launch site (Sary Ozek)
  - a. Nine launch positions
  - b. Vehicle garages
6. SCALEBOARD field launch site (Sary Ozek)
  - a. Only positioning points for TEL visible
  - b. Very little track activity

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MEMORANDUM FOR:

*Suspect For*  
*Tom 6 JULY*

Assuming this means  
that briefing is in a ready  
status, I, PNS & ACL  
need to have it presented  
to us -- at leisure  
sometime.

*H*

DINO ADVISED

*25 June*  
(DATE)

Approved: *6/25* Release 2004/02/12 : CIA-RDP78B05703A000500050017

3. Preparation of SALT Briefing 14 APRIL

At the session with [ ] JJH indicated the need for IEG to develop a SALT-oriented briefing. He asked [ ] to work on such a briefing and come up with a proposal in about a month with both vugraphs and boards.

5/11  
5/26  
6/8

REVIEWED -  
REVIEWED -



REVIEWED  
REVIEWED

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# SALT BRIEFING

The MSD proposal for SALT-oriented briefings is composed of four parts and contains the following vugraphs and boards.

## Part 1

CAMOUFLAGE 9 BOARDS (Boards or prints all ready available)

X1 IIIC Dummy Site, Kartaly [REDACTED]

IIID, Plesetsk Dummy Sites A & B

IIID, Kostroma Dummy Site in Full Group

X1 Kartaly 4S29D [REDACTED] Disruptive Painting

X1 Aleysk L/S 12A [REDACTED] Tonal Changes on Concrete

X1 Drovyanaya L/S 22H [REDACTED]

X1 Tatishchevo 5A [REDACTED]

X1 Kartaly L/S 38E [REDACTED]

Comparison of the same Site with wet roads and dry roads (on the same mission)

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SALT BRIEFING

Part 2

MOBILITY 10-16 Boards

Scamp (color parade shot)

Scape goat (color parade shot)

Scrooge (color parade shot)

Savage (color parade shot)

Scaleboard (color parade shot)

Erected Scamps (colored movie stills)

Erected Scaleboard (newspaper shot)

Balki Site with Scaleboard

Prob Scrooge at Plesetsk

Scaleboards on pads, Manzovka

Scaleboard permanent site, Sary Ozek Mission ) TCS-

Scaleboard Field Site, Sary Ozek (

Scaleboard Sites (all three at Drovyanaya)

1 or 3 enlargements of each 1

Scaleboard Support Base (Sary Ozek)

ICBM RTP (Tatishchevo or SS-9)

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SALT BRIEFING

Part 3

MAINTENANCE vs. RETROFIT

Observed Operations

14 Boards

Silo missile loading - SS-11

Propellant loading SS-9 and SS-11

Warhead Exercises SS-11

SS-7 silo exercises (Plesetsk)

SS-13 silo loading (Plesetsk)

Maintenance

Same site, same activity at yearly intervals

4 or 5 examples

chart of observations

Retrofit

SS-7s - SS-9 comparisons

Equipment comparisons

SS-7 silo loader-SS-9 silo loader comparisons

SS-7 stage transporter - SS-9 stage transporters comparisons

SS-7 fuel trailer - SS-9 fuel trailers comparisons

SS-7 oxidizer trailers - SS-9 oxidizer trailers comparisons

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SALT BRIEFING

Part 4

Status of Deployment

USSR Map (by complex, site types by color)

Site types examples

Soft - Itatka with erected SS-7

Hard - type IIIA

type IIIB with colored inset of parade SS-8

type IIIC

type IIID

type IIIE

Chart with totals

Mosaic and L/D of IIIC complex (Imeni Gastello)

L/D of IIIC group

Mosaic and L/D of IIID complex (Tatishchevo)

L/D of IIID groups

Mosaic and L/D of IIIE complex

L/D of IIIE group

IIIC u/c early stage (model inset)

IIIC u/c mid stage (model inset)

IIIC u/c early mid stage (model inset)

IIIC u/c late mid stage (model inset)

IIIC u/c late stage (model inset)

IIIC site through clouds (Z-T Launch Site 20D)

Railhead and storage area

RTP

Headquarters command and control facility

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Training exercise - (Yedrovo)

Parade shot SS-9 (color)

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